

Massachusetts Department of Transportation
CA/T Project Repair and Maintenance Trust Fund Request

Request Number: _____

Date: Feb. 24, 2011

(Check One) Future Cost X

Retroactive Cost X

Title: CRC 17 – Lighting Issues

Scope List: (A): I90 Lighting and Staining

(B): Lighting Support Clips

Description: This Trust Fund Request is being submitted to seek reimbursement for costs associated with various lighting elements.

General: The general scope for this Trust Fund Requests includes investigation, design work, bidding, construction, administration, and assistance by MassDOT field personnel to perform this remediation. It should be noted that since the exact scope of item (B) below is not known at this time, it is possible that additional funding will be sought in the future.

Scope (A): In the wake of the July 2006 tunnel ceiling collapse incident in I90, sections of the easterly most ceiling system were removed. Temporary lights were mounted on the tunnel walls to provide the necessary illumination. In addition, the removal of the ceiling system exposed the untreated concrete roof, which had been previously protected by the ceiling panels. The Massachusetts Attorney General's office declared the entire area to be a crime scene – this declaration included a mandate that no construction work could proceed in this specific area. After the AGO declared that this section was no longer a crime scene (March 2010), they released control of the area to MassDOT. The scope of this work includes the re-installation of the overhead lighting system, the removal of the temporary wall-mounted lights, and the staining of the roof section. In addition, in accordance with an outstanding state commitment from the opening of the ramp system after the completion of the tunnel ceiling retrofit work, the scope will include developing and implementing a test of the lighting system.

Scope (B): As a result of recent inspection by MassDOT, it was discovered that at some locations the protective paint on the wireways has been failing prematurely. This premature failure has resulted in corrosion of the portion of the wireway to which lighting support clips are attached. The clips are subject to slippage due to that corrosion, which could result in the slippage and/or falling of the light fixtures. The scope of this work includes investigation of alternative means of securing these clips. It is unclear at this time whether the solution to this problem will be a minor or major cost item. Depending on the preferred alternative, this funding request may be adequate or a future request for additional funding may be forthcoming.

It should be noted that MassDOT personnel have been performing inspections and some relocation of clips to ensure safety; as a result there will be a component of Retroactive cost reimbursement.

Resource Usage Narrative: Please note that it is uncertain at this time as to whether both scope elements will be assigned to the same or different designers and contractors. That decision will be made as the scope develops further.

Design: It is expected that this scope will be assigned to one or two MassDOT GEC consultants familiar with the CA/T lighting system. MassDOT operations and maintenance forces will provide support to the designer(s).

Construction: Depending on the preferred alternative, implementation will be performed either by MassDOT field personnel, or by one or two construction contractors procured using normal MassDOT procedures.

Traffic Control: It is anticipated that traffic control will be provided by a combination of MassDOT personnel, State Police personnel, and possibly contractor personnel.

Administrative: Administrative support, including support to the designer and contractor, will be provided by MassDOT personnel. In addition, it may be necessary for MassDOT to utilize certain consultant services in administrative tasks.

Justification:

Scope (A) – this scope is made necessary by the decision to remove sections of the I90 easterly ceiling panels in the wake of the 2006 ceiling collapse accident. As such, this work is not due to normal wear and tear, and is not considered normal maintenance.

Scope (B) – this scope is made necessary due to the premature failure of the paint system on the lighting wireways. This is not due to normal wear and tear, and is not considered normal maintenance.

Therefore the costs for both scope items is eligible for reimbursement from the Trust Fund

Preliminary Estimate of Costs*

Design	\$ 100,000
Construction	\$ 900,000
Traffic Control	\$ 100,000
Administrative	\$ 100,000
Total	\$ 1,200,000

Preliminary Estimate of Schedule*

	Start Date	Duration
Design / Bid	April 2011	3 – 6 months
Construction	July – Oct 2011	9 months

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Request Date February 24, 2011

Request Total: \$ 1,200,000

By their signatures below, the following persons certify that the requested disbursement conforms with the purposes of the fund as set forth in Chapter 10, Section 63A and in accordance with this Agreement.

Submitted by: _____
Chief Engineer Date

Division Head Certification: _____
MassDOT Highway Division Administrator Date

Approved by: _____
MassDOT Secretary and CEO Date

Approved by: _____
Federal Highway Administrator Date